

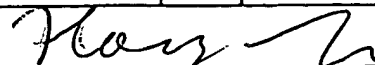
Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as (necessary))				Complete If Known	
				Application Number	
				Filing Date	
				First Named Inventor	Adrian S. Matthews
				Group Art Unit	
Examiner Name					
Sheet	1	of	2	Attorney Docket Number	112914CIP

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.†	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figure Appears
		Number	Kind Code‡ (if known)			
H.V.	A1	4679227		Hughes-Hartogs	7/7/87	
H.V.	A2	4731816		Hughes-Hartogs	3/15/88	
H.V.	A3	4833706		Hughes-Hartogs	5/23/89	

FOREIGN PATENT DOCUMENTS								
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†Unique citation designation number. ‡ See attached Kinds of U.S. Patent Documents § Enter Office that issued the document, by the two letter code (WIPO Standard ST.3). ¶ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. § Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ¶ Applicant is to place a check mark here if English language Translation is attached.

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. *	Include name of the author (in CAPITAL LETTERS), title of the article(when appropriate), title of the item(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T*
H.V.	C1	IRVING KALET, "The Multitone Channel", <u>IEEE Transactions on Communications</u> , Vol. 37, No. 2, February 1989, pp. 119-124	<input type="checkbox"/>	
H.V.	C2	"Practical Generation of Spectrally Efficient Pulses", <u>ICCC '85</u> , June 1985, pp.18.2.1-18.2.5	<input type="checkbox"/>	
H.V.	C3	"A 19.2 Kbps Voiceband Data Modem Based on Orthogonal Multiplexed QAM Techniques", <u>ICC '85</u> , June 1985, pp.21.1.1-21.1.5.	<input type="checkbox"/>	
H.V.	C4	"Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come", J.A.C.Biknghan, <u>IEEE Comm.</u> May 1990, pp.5-14.	<input type="checkbox"/>	